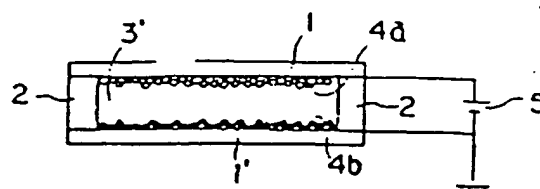


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APPLICANT : RICOH CO LTD;

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TITLE : ELECTROPHORETIC DISPLAY
ELEMENT

ABSTRACT : PURPOSE: To obtain an electrophoretic display element having a large color difference, high response speed and shelf life of a dispersion by sealing a liquid prepd. by dispersing two kinds of pulverized electrophoretic particles having the color tones and electrophoretic polarities different from each other into colorless dispersion medium having a high insulating property and low viscosity into a cell.

CONSTITUTION: Two kinds of the pulverized electrophoretic particles 4a, 4b having the color tones and electrophoretic polarities different from each other are intrinsically uniformly dispersed into the colorless dispersion medium 3' having the high insulating property and low viscosity to form electrical double layers. An example in which the particles 4a are electrified negative and the particles 4b are electrified positive is shown here. The pulverized electrophoretic particles 4a electrified negative are electrically migrated by an external electric field to stick to a transparent electrode 1 side on a display side when said electric field is applied by a driving power source 5 to such electrophoretic display element. On the other hand, the pulverized electrophoretic particles 4b electrified positive are electrically migrated to stick to a counter electrode 1' side. The color tone of the pulverized electrophoretic particles 1a is displayed on the display electrode 1 side in this stage.

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